Bruhat Bangalore Mahanagara Palike

Executive Engineer Yelahanka Division

Name of Work-"Resurfacing Of Roads At Maruthi Nagara 3rd Main 6th, 7th, and 8th Cross Roads in Kempegowda Ward No-01

Sl No	Description of Items	Unit	No	Length	Estimate Cost Width	Depth	Quantity	50.00 Lakhs Rate	Amount
1	Removing And Resetting Of Footpath Slab [Approved Rate]								
	(Yelahanka zone) Appproved Rate	**235.00**							
		Sqm							
	Maruthi Nagara								
	3rd Main Rd								
	6th Cross Rd								
	8th Cross Rd		2	201.50	0.75		302.25		
	12th Cross Rd		2	161.00	0.75		241.50		
	1stD Cross Rd		2	123.00	0.75		184.50		
	1stC Cross Rd		2	63.00	0.75		94.50		
			2	55.00	0.75		82.50		
	Consider 60 %						905.25		
	Deduct 20% Missing/ Damaged Slab						**543.15**		
							108.63		
							434.52	**235.00**	**102112.20**
2	**Earth work excavation by manual means** for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work . (V-I.No 1.4,Page No-5 CSR 2023-24) & (V-III Page No.5, Item No.1.1C of CSR 2023-24)								
	Basic rate	**242.00**							
	loading And Unloading	**86.00**							
	Sub Total	**328.00**							
	Area Weightage 10%	**32.80**							
	Total	**360.80**							
		Cum							
	Ward-01								
	RCC Drain								
	Maruthi Nagara								
	3rd Main Rd								
	7th Cross Rd		1	182.00	1.00	1.00	182.00		
	1stC Cross Rd		1	30.00	1.00	1.00	30.00		
	RCC Drain Desilt								
	Maruthi Nagara								
	3rd Main Rd								
	6th Cross Rd		2	201.50	0.45	0.55	99.74		
	8th Cross Rd		2	161.00	0.45	0.55	79.70		

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	12th Cross Rd		2	123.00	0.45	0.50	55.35		
	1stD Cross Rd		2	63.00	0.45	0.45	25.52		
	1stC Cross Rd		2	55.00	0.45	0.55	27.23		
	Deduct 10% Voids						499.53		
							49.95		
							449.57	**360.80**	**162206.57**
3	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) **Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse aggregates** (V-1, P.No-15, I No-2.1.3 of CSR 2023-24)								
	Basic rate	**5989.00**							
	Area Weightage 10%	**598.90**							
	Total	**6587.90**							
		Cum							
	RCC Drain								
	Maruthi Nagara								
	3rd Main Rd								
	7th Cross Rd								
	1stC Cross Rd		1	182.00	1.00	0.15	27.30		
			1	30.00	1.00	0.15	4.50		
							31.80	**6587.90**	**209495.22**
4	Supplying, fitting and placing **TMT FE 550 / 550D Steel Reinforcement** including cost of all materials, machinery, labour, cleaning, straightening, cutting, bending, hooking, laping/welding joints, tying with binding wire / soft annealed steel wire and other ancilary operations complete as per drawing and technical specification.All other type of structures .(V-I, I.No 2.11 h Page No 18,CSR 2023-24)								
	Basic rate	**79011.00**							
	Area Weightage 10%	**7901.10**							
	Total	**86912.10**							
		Ton							
	Consider 60kg/Cum For Drain		1	62.01	60.00		3720.60		
							3720.60		
							3.72	**86912.10**	**323365.16**
5	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) **M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates** (V-1,P.No.16, I.No.2.4.2 of CSR 2023-24)& (Addendum I , V-1, P.No.111 of CSR 2023-24)								
	Basic rate	**6323.00**							

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Formwork 35%	**2213.05**							
	Sub Total 1	**8536.05**							
	Area Weightage 10%	**853.61**							
	Total	**9389.66**							
		Cum							
	RCC Drain Raft								
	Maruthi Nagara								
	3rd Main Rd								
	7th Cross Rd								
	1stC Cross Rd		1	182.00	0.75	0.15	20.48		
	RCC Drain Wall		1	30.00	0.75	0.15	3.38		
	Maruthi Nagara								
	3rd Main Rd								
	7th Cross Rd								
	1stC Cross Rd		2	182.00	0.15	0.60	32.76		
			2	30.00	0.15	0.60	5.40		
	RCC DrainCoping						**62.01**		
	Maruthi Nagara								
	3rd Main Rd								
	6th Cross Rd								
	8th Cross Rd		4	201.50	0.15	0.10	12.09		
	1stD Cross Rd		4	161.00	0.15	0.10	9.66		
	1stC Cross Rd		4	63.00	0.15	0.10	3.78		
			4	55.00	0.15	0.10	3.30		
							28.83		
6	Providing and fixing precast reinforced cement concrete **covering slabs of 10Cm thick** made of M20 with OPC cement, with 20mm and down size graded granite metal coarse aggregate @0.70cum and fine aggregate & 0.74 cum with superplasticizer machine,mixed, Inculding providing and removing centering, shuttering, strutting propping etc., for edges of slabs with TMT steel (Fe500) cost of all materials, labour, all lead and lift, HOM of machinery, curing, including cost of reinforcement etc., complete as directed by the Engineer in charge of the work.(Exclusive of GST) Approved Rate						**90.84**	**9389.66**	**852956.26**
	(Yelahanka zone) Data Rate	**2072.00**							
		Sqm							
	Maruthi Nagara								
	3rd Main Rd								
	7th Cross Rd		1	182.00	0.75		136.50		
	1stC Cross Rd		1	30.00	0.75		22.50		
	Damaged/ Missing Slab From Item No-01						**108.63**		
							267.63	**2072.00**	**554529.36**
7	**Earth work in surface excavation by mechanical means** for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work In all kinds of soils upto 300 mm depth ((V-I, P.No-8, I No-1.12 of CSR 2023-24)								

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Basic rate	**95.00**							
	Area Weightage 10%	**9.50**							
	Total	**104.50**							
		Cum							
	For Asphalt Edge Correction & Damaged Portion / Pipeline cut portion								
	Maruthi Nagara								
	3rd Main Rd								
	6th Cross Rd								
	8th Cross Rd		2	201.50	0.35	0.20	28.21		
	12th Cross Rd		2	161.00	0.40	0.20	25.76		
	1stD Cross Rd		2	123.00	0.40	0.20	19.68		
	1stC Cross Rd		2	63.00	0.40	0.20	10.08		
			2	55.00	0.40	0.20	8.80		
							92.53	**104.50**	**9,669.39**
8	Providing, laying, spreading and compacting graded stone aggregate to **wet mix macadam** specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density (V-III, P.No-26,I No-4.17)of CSR 2023-24).								
	Basic rate	**2559.00**							
	Area Weightage 10%	**255.90**							
	Total	**2814.90**							
		Cum							
	For Asphalt Edge Correction & Damaged Portion / Pipeline cut portion								
	Maruthi Nagara								
	3rd Main Rd								
	6th Cross Rd		2	201.50	0.35	0.225	31.74		
	8th Cross Rd		2	161.00	0.40	0.225	28.98		
	12th Cross Rd		2	123.00	0.40	0.225	22.14		
	1stD Cross Rd		2	63.00	0.40	0.225	11.34		
	1stC Cross Rd		2	55.00	0.40	0.225	9.90		
							104.10	**2814.90**	**293020.53**
9	Providing and applying **primer coat** with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90 kg per m2 using mechanical means. (V-III, P.No-31,I No-5.1(i) of CSR 2023-24).								
	Basic rate	**41.00**							
	Area Weightage 10%	**4.10**							
	Total	**45.10**							
		Sqm							
	For Asphalt Edge Correction & Damaged Portion / Pipeline cut portion								
	Maruthi Nagara								
	3rd Main Rd								
	6th Cross Rd		2	201.50	0.35		141.05		
	8th Cross Rd		2	161.00	0.40		128.80		
	12th Cross Rd		2	123.00	0.40		98.40		
	1stD Cross Rd		2	63.00	0.40		50.40		
	1stC Cross Rd		2	55.00	0.40		44.00		

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
10	Providing and applying **tack coat** with VG-10 Bitumen using pressure distributor at the rate of 0.20 kg/m2on the prepared bituminous surface cleaned with mechanical broom.(V-III, P.No-43,I No-5.32 of CSR 2023-24).						**462.65**	**45.10**	**20,865.52**
	Basic rate	**12.00**							
	Area Weightage 10%	**1.20**							
	Total	**13.20**							
		Sqm							
	For BC								
	Maruthi Nagara								
	3rd Main Rd								
	6th Cross Rd								
	8th Cross Rd		1	201.50	4.20		846.30		
	12th Cross Rd		1	161.00	4.00		644.00		
	1stD Cross Rd		1	123.00	3.90		479.70		
	1stC Cross Rd		1	63.00	5.00		315.00		
			1	55.00	4.50		247.50		
							2532.50	**13.20**	**33,429.00**
11	Providing and laying Dense **Graded Bituminous Macadam** with 40/60 TPH capacity HMP using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 4.5 per cent by weight of total mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification clause No. 505 complete in all respects. (V-III, P.No-35,I No-5.12C of CSR 2023-24).								
	Basic rate	**9449.00**							
	Area Weightage 10%	**944.90**							
	Total	**10393.90**							
		Cum							
	For Asphalt Edge Correction & Damaged Portion / Pipeline cut portion								
	Maruthi Nagara								
	3rd Main Rd								
	6th Cross Rd		2	201.50	0.35	0.05	7.05		
	8th Cross Rd		2	161.00	0.40	0.05	6.44		
	12th Cross Rd		2	123.00	0.40	0.05	4.92		
	1stD Cross Rd		2	63.00	0.40	0.05	2.52		
	1stC Cross Rd		2	55.00	0.40	0.05	2.20		
	For Profile Correction								
	Maruthi Nagara								
	3rd Main Rd								
	6th Cross Rd		1	201.50	0.30	0.05	3.02		
	8th Cross Rd		1	161.00	0.30	0.05	2.42		
	12th Cross Rd		1	123.00	0.20	0.05	1.23		
	1stD Cross Rd		1	63.00	0.20	0.05	0.63		
	1stC Cross Rd		1	55.00	0.20	0.05	0.55		
							30.98	**10393.90**	**322003.02**

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
12	Providing and laying **Bituminous Concrete** with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 5.4 per cent of mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects (V-III, P.No.38, I.No.5.16C of CSR 2023-24).								
	Basic rate	**10954.00**							
	Area Weightage 10%	**1095.40**							
	Total	**12049.40**							
	For BC	**Cum**							
	Maruthi Nagara								
	3rd Main Rd								
	6th Cross Rd								
	8th Cross Rd		1	201.50	4.20	0.04	33.85		
	12th Cross Rd		1	161.00	4.00	0.04	25.76		
	1stD Cross Rd		1	123.00	3.90	0.04	19.19		
	1stC Cross Rd		1	63.00	5.00	0.04	12.60		
			1	55.00	4.50	0.04	9.90		
							101.30	**12049.40**	**1220604.22**
13	Providing and laying of **hot applied thermoplastic compound** 2.5 mm thick including reflectorising glass beads @ 250 g/ m2 area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35:2015.The finished surface to be level, uniform and free from streaks and holes.(V-III,I No-8.15, P.No-67 of CSR 2023-24)								
	Basic rate	**530.00**							
	Area Weightage 10%	**53.00**							
	Total	**583.00**							
		Sqm							
	For Edge Line Maruthi Nagara								
	3rd Main Rd								
	6th Cross Rd		2	201.50	0.10		40.30		
	8th Cross Rd		2	161.00	0.10		32.20		
	12th Cross Rd		2	123.00	0.10		24.60		
	1stD Cross Rd		2	63.00	0.10		12.60		
	1stC Cross Rd		2	55.00	0.10		11.00		
							120.70	**583.00**	**70,368.10**
14	Cost of Haulage Excluding Loading and Unloading Taking output 25 t load and lead 10 km = 100 t.km (V-III Page No.5, Item No.1.4C of CSR 2023-24)								
	Basic rate	**8.00**							
	10KM Lead = 8*10	**80.00**							
	Area Weightage 10%	**8.00**							
	Total	**88.00**							
		t.Km							
	Qty frm Item No-2		1	449.57	1.28		575.46		
	Qty frm Item No-7		1	92.53	1.28		118.44		
							693.89	**88.00**	**61,062.68**

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
								Total Construction Cost	4235687.22
								18% GST For S.R Items	762423.70
								Sub Total	4998110.92
								Utility Shifting,Miscellaneous and Rounding off	1,889.08
								GRAND TOTAL	5000000.00

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2023-2024, Data Rates

Assistant Engineer
Ward-01
BBMP Bangalore

Asst. Executive Engineer
Yelahanka Sub Division
BBMP Bangalore

Executive Engineer,
Yelahanka Division
BBMP Bangalore

Technical Sanction
Accorded For AS SO'ed Lumpsum only
Head of A/D
CEB NO 167 Dt:07/03/24